

? APPLICANT: Patterson, Chandra
 ? TITLE OF INVENTION: CELL JUNCTION FOR PROTEIN
 ? FILE REFERENCE: PE-0599 US
 ? CURRENT APPLICATION NUMBER: 09/097,376, 1-2
 ? CURRENT FILING DATE: 1999-08-06
 ? EARLIER APPLICATION NUMBER: 09/151,611
 ? EARLIER FILING DATE: 1998-09-11
 ? NUMBER OF SEQ ID NOS: 3
 ? SOFTWARE: PERL Program
 ? SEQ ID NO 1
 ? LENGTH: 243
 ? TYPE: PRI
 ? ORGANISM: Homo sapiens
 ? FEATURE:
 ? OTHER INFORMATION: 1974347
 US-09-376-102 1

Query Match 100.0%; Score 1170; DP 4; Length 234;
 Best Local Similarity 100.0%; Pred. No. 2e-109;
 Matches 244; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
 Q7 1 MLKPSVIAATTAHATLVVGLTLDGVVARAELEKIQESGEVVEKASLRKVLQSE 60
 Db 1 MLKPSVIAATTAHATLVVGLTLDGVVARAELEKIQESGEVVEKASLRKVLQSE 60
 Q7 61 PCLAEVYQYMHITVWSTITTKATATKATVAAGASGSHSGKAVVAPKATKELSL 120
 Db 61 PCLAEVYQYMHITVWSTITTKATATKATVAAGASGSHSGKAVVAPKATKELSL 120
 Q7 121 NWKAPENQVYSEITKSWZEDSNPTDZLENSGVVFYTHKAEVLEKAAAL 180
 Db 121 NWKAPENQVYSEITKSWZEDSNPTDZLENSGVVFYTHKAEVLEKAAAL 180
 Q7 181 SVKLVVYHRYVLEINIAHPTKLRAPRQVQVQLLQKQSGDQVQVQVQVQV 234
 Db 181 SVKLVVYHRYVLEINIAHPTKLRAPRQVQVQLLQKQSGDQVQVQVQVQV 234
 Q7 181 SVKLVVYHRYVLEINIAHPTKLRAPRQVQVQLLQKQSGDQVQVQVQVQV 234
 Db 181 SVKLVVYHRYVLEINIAHPTKLRAPRQVQVQLLQKQSGDQVQVQVQVQV 234

RESULT 3
 US-09-151-611-3
 ? Sequence 3, Application US/09091601
 ? Patent No. 5958741
 ? GENERAL INFORMATION:
 ? APPLICANT: Yoo, Henry
 ? APPLICANT: An Young, Janice
 ? TITLE OF INVENTION: CELL JUNCTION FOR PROTEIN
 ? FILE REFERENCE: PE-0599 US
 ? CURRENT APPLICATION NUMBER: 09/097,376, 1-2
 ? CURRENT FILING DATE: 1998-09-11
 ? NUMBER OF SEQ ID NOS: 3
 ? SOFTWARE: PERL Program
 ? SEQ ID NO 3
 ? LENGTH: 297
 ? TYPE: PRI
 ? ORGANISM: Caenorhabditis elegans
 ? FEATURE:
 ? OTHER INFORMATION: q1685067
 US-09-151-611-3

Query Match 55.0%; Score 643.5; DP 2; Length 297;
 Best Local Similarity 70.6%; Pred. No. 1.5e-56;
 Matches 127; Conservative 29; Mismatches 23; Indels 1; Gaps 1;
 Q7 25 LDRVAKAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 61
 Db 117 LDRVAKAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 126
 Q7 85 KAAATATAVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 144
 Db 177 KAAATATAVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 236
 Q7 145 KRAKAPVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 264

Db 25 KRAKAPVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 264
 RESULT 4
 US-09-370-102 3
 ? Sequence 3, Application US/99470102
 ? Patent No. 6265547
 ? GENERAL INFORMATION:
 ? APPLICANT: Yoo, Henry
 ? APPLICANT: An Young, Janice
 ? APPLICANT: Patterson, Chandra
 ? TITLE OF INVENTION: CELL JUNCTION FOR PROTEIN
 ? FILE REFERENCE: PE-0599 US
 ? CURRENT APPLICATION NUMBER: 09/097,376, 1-2
 ? EARLIER APPLICATION NUMBER: 09/151,611
 ? EARLIER FILING DATE: 1998-09-11
 ? NUMBER OF SEQ ID NOS: 3
 ? SOFTWARE: PERL Program
 ? SEQ ID NO 3
 ? LENGTH: 297
 ? TYPE: PRI
 ? ORGANISM: Caenorhabditis elegans
 ? FEATURE:
 ? OTHER INFORMATION: q1685067
 US-09-370-102-3

Query Match 55.0%; Score 643.5; DP 4; Length 297;
 Best Local Similarity 70.6%; Pred. No. 1.5e-56;
 Matches 127; Conservative 29; Mismatches 23; Indels 1; Gaps 1;
 Q7 25 LDRVAKAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 64
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 Db 237 KRAKAPVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 295

RESULT 5
 US-09-562-737-21
 ? Sequence 21, Application US/09562737
 ? Patent No. 6428967
 ? GENERAL INFORMATION:
 ? APPLICANT: Herz, Joachim
 ? APPLICANT: Gotthardt, Michael
 ? TITLE OF INVENTION: GPC Receptor Signaling Pathways
 ? FILE REFERENCE: UTSW0708
 ? CURRENT APPLICATION NUMBER: US/09/562,737
 ? CURRENT FILING DATE: 2000-05-01
 ? NUMBER OF SEQ ID NOS: 132
 ? SOFTWARE: Patent In Ver. 2.1
 ? SEQ ID NO 21
 ? LENGTH: 724
 ? TYPE: PRI
 ? ORGANISM: Artificial Sequence
 ? FEATURE:
 ? OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 ? Class: 10. Artificial sequence
 US-09-562-737-21

Query Match 16.8%; Score 196.5; DP 4; Length 724;
 Best Local Similarity 41.4%; Pred. No. 4e-11;
 Matches 41; Conservative 19; Mismatches 48; Indels 1; Gaps 1;
 Q7 100 DPAVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 165
 Db 111 DPAVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 176

A; Molecules type: DNA

A; Molecule type: DNA

A: Molecular types: 1N

A; Molecular type: 1NA;

A: Molecule type: DNA

$$A; M_0 | \text{cov}(\mathbf{t}, \mathbf{v})_{\text{cov}} = (\mathbf{N}A^T$$

A; Molecular type: DNA

A; Molecular type: DNA

$$A; M_0 | \text{cell} \vdash \vdash \text{true} : \text{[NA]}$$

A; Molecular type: DNA

A; Molecular types: DNA

A; Molecular type: DNA

A; Molecular type: DNA;

A; M₀) | $\epsilon_{\text{eff}}(\omega)$ type: DNA

A; Molecule type: DNA

A; Molecule type; DNA;

$$A; M_0 | \mathcal{C}(\mathcal{U}) \vdash \vdash \mathcal{V}(\mathcal{U}) : \{NA\}$$

A; Molecular type: DNA;

 $A; M_0 | \{c^{\alpha_i}\}_{i=1}^n + v_{\text{res}}; [NA]$
$$A; M_0 | \mathcal{G}(\mathcal{U}) | \mathcal{U} \vdash \text{type}_0; \vdash \text{NA}$$

A; Mol/L; Ca^{2+} ; pH ; pNa ; pH_2O

A: Mo | Cu | Pt | $\text{t-V}_{0.5}\text{V}_{0.5}$; [NA]

$\Lambda^+ \text{MeV} / c^2$; $t_{\text{eff}} = t_{\text{eff}}; 0 \text{ NA}$

$$\Lambda; \mathbf{M}_0) | \psi_{\text{eff}} \rangle \rangle, \quad \dagger \psi_{\text{eff}} = (\text{NA} \dots \text{C}_{\text{catalyst}}) \text{ ions},$$
$$\Lambda; \text{Model}_{\text{CCU}} | \mu, t_{\text{VTEC}}, (\text{NA} - \sigma_{\text{Count}})_{\text{max}}$$
A: Molecular types: DNA
 C: Genomic types: DNA
$$A; M_{\text{G}} | \epsilon_{\text{GHI}} | n = t_{\text{Yrs}} : \text{IN}$$

$$\text{C.C.I.} + \text{I.N.}$$

A. M. Cole, J. M. Taylor, D. N. Coleman

$A, M_0 | \text{equilibrium types: DNA}$

A: Molecular typing: DNA

A: Molecule type: DNA
C: Chemical process:

A; M₀ | c₀ | t₀ + Δt_{exp}; [NA]

C. G. Overton, J. N. A.

A7: Molecular typing: DNA
 C: Genotyping: DNA

A7: Molecular types: DNA

A. Z. M. et al. / *Journal of Management Education* 46(1) 1–24

$A_2(M_0) \mid \text{cc}_{\text{all}}[A_1] \vdash \forall x_{\text{all}}. [NA]$

C. C. G. 2019

A: Molecule type: DNA	C: Control: none
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A₂M₆ | cm^{-1} : 1540; 1394

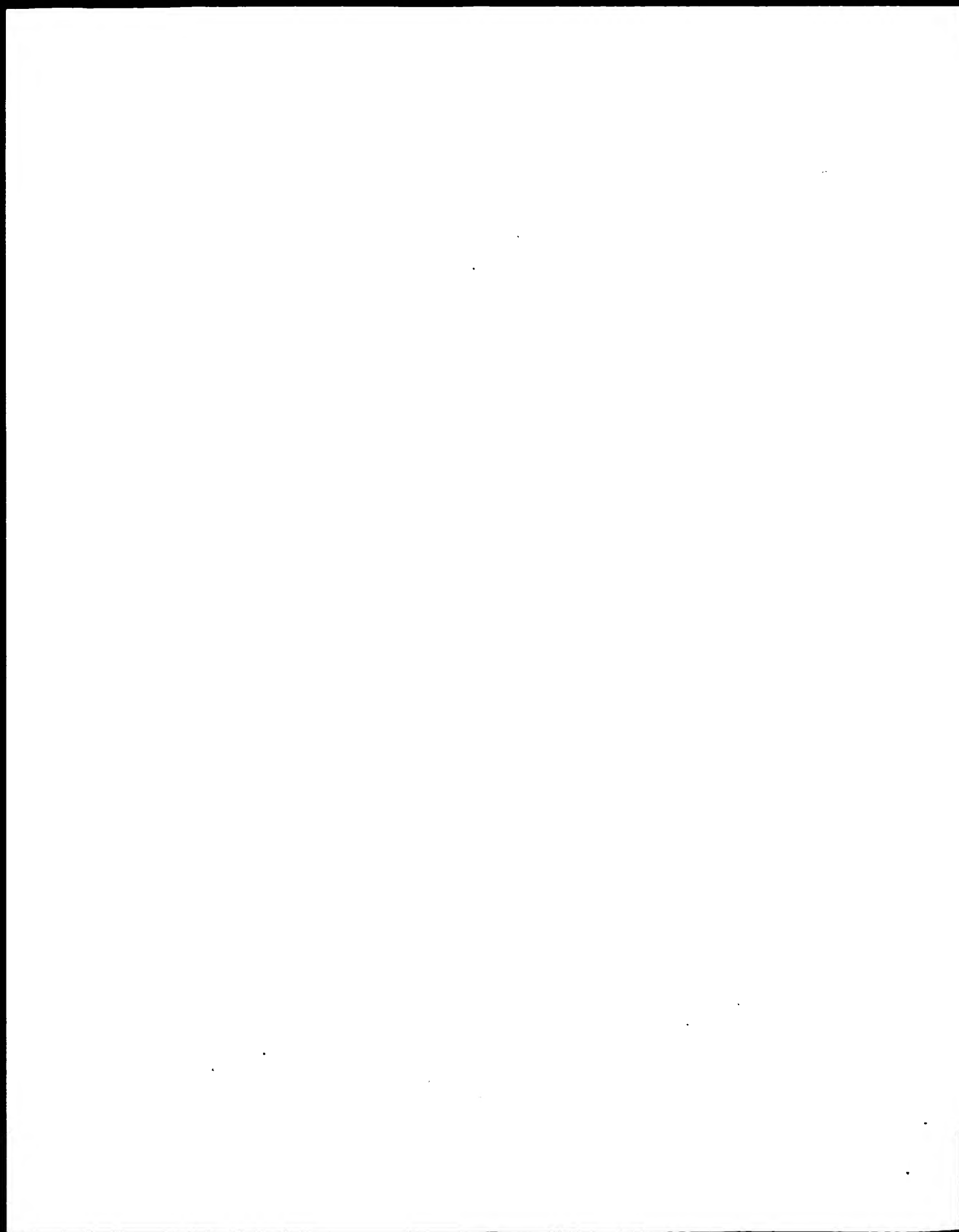
$A, M_0, \text{cell}, \text{type}, \text{DNA}$



Sample No.	Score	Match	Length	DB	ID	Description
1	21.9	16.7	852	1	0412_KAI	06522 ratfus mofz
2	21.7	16.6	870	1	0412_HUMAN	216700 homo sapien
3	20.9	13.9	863	1	0412_HUMAN	141007 drosophila
4	20.8	17.4	813	1	0412_HUMAN	092596 homo sapien
5	20.5	13.4	849	1	0405_MOUSE	170175 mus musculu
6	20.4	17.4	849	1	0405_MOUSE	062536 ratfus mofz
7	19.6	16.8	724	1	0404_KAI	062108 mus musculu
8	19.6	16.8	724	1	0404_KAI	041136 ratfus mofz
9	19.6	16.8	757	1	0404_HUMAN	178062 homo sapien
10	19.2	16.4	904	1	0403_HUMAN	012109 homo sapien
11	19.2	16.4	911	1	0403_HUMAN	012109 homo sapien
12	18.9	14.3	2103	1	0403_HUMAN	012123 homo sapien
13	19.6	13.6	206	1	0426_KAI	096013 ratfus mofz
14	19.6	13.7	673	1	0426_KAI	096013 ratfus mofz
15	19.6	13.6	145	1	0405_HUMAN	157305 homo sapien
16	14.7	12.4	874	1	0405_HUMAN	096013 ratfus mofz
17	14.7	12.4	712	1	0405_HUMAN	096013 ratfus mofz
18	14.3	12.3	1096	1	0405_HUMAN	096013 ratfus mofz
19	13.5	11.3	1629	1	0401_KAI	128001 ratfus mofz
20	13.5	11.3	1613	1	0401_KAI	128001 ratfus mofz
21	13.6	11.8	9436	1	0404_KAI	096013 ratfus mofz
22	13.6	11.2	9426	1	0404_HUMAN	120074 homo sapien
23	12.4	10.6	1215	1	0405_HUMAN	096013 ratfus mofz
24	12.4	10.6	913	1	0405_HUMAN	120074 homo sapien
25	12.4	10.6	913	1	0405_HUMAN	120074 homo sapien
26	12.4	10.6	913	1	0405_HUMAN	120074 homo sapien
27	12.4	10.6	913	1	0405_HUMAN	120074 homo sapien
28	12.4	10.6	913	1	0405_HUMAN	120074 homo sapien
29	12.4	10.6	913	1	0405_HUMAN	120074 homo sapien
30	12.4	10.6	913	1	0405_HUMAN	120074 homo sapien
31	11.6	10.1	643	1	0405_HUMAN	096013 ratfus mofz
32	11.6	10.1	643	1	0405_HUMAN	096013 ratfus mofz
33	11.6	10.1	1447	1	0405_HUMAN	096013 ratfus mofz
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37	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
38	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
39	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
40	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
41	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
42	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
43	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
44	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
45	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
46	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
47	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
48	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
49	11.6	9.9	575	1	0405_HUMAN	096013 ratfus mofz
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15. TN-2002 (Ref. 14, last annotation update)
 16. Uses tumor suppressor protein.
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[illegible][illegible]

Received: March 13, 2003; Accepted: June 03, 2003

[illegible]

Figure 1. The structure of the proposed model.

MILK

[illegible]

THE UNIVERSITY OF CHICAGO

1971	1972
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2197	2198
2199	2199

$$\begin{array}{ccccccc} \mathcal{F}_0 & \xrightarrow{\quad\quad} & \mathcal{F}_1 & \xrightarrow{\quad\quad} & \mathcal{F}_2 & \xrightarrow{\quad\quad} & \mathcal{F}_3 \\ \downarrow & & \downarrow & & \downarrow & & \downarrow \\ \mathcal{G}_0 & \xrightarrow{\quad\quad} & \mathcal{G}_1 & \xrightarrow{\quad\quad} & \mathcal{G}_2 & \xrightarrow{\quad\quad} & \mathcal{G}_3 \end{array}$$
[illegible][illegible][illegible]

Figure 1 is a 3D bar chart illustrating the distribution of cases across different age groups and sexes. The x-axis represents age groups (0-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85+). The y-axis represents sex (Male, Female). The z-axis represents the number of cases (0 to 1000). The chart shows that the number of cases is generally higher for males than for females across most age groups, with a significant peak in the 15-24 age group for males.

[illegible][illegible][illegible]

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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[illegible]

Year	Age	Sex	Occupation	Education	Income	Health	Family	Community	Environment	Policy	Outcome
2000	18-24	M	Student	High	Low	Good	Small	Urban	Good	Active	Low
2001	25-34	F	Teacher	Medium	Medium	Fair	Medium	Suburban	Fair	Passive	Medium
2002	35-44	M	Engineer	High	High	Good	Large	Urban	Good	Active	Low
2003	45-54	F	Nurse	Medium	Medium	Fair	Medium	Suburban	Fair	Passive	Medium
2004	55-64	M	Retired	High	High	Good	Large	Urban	Good	Active	Low
2005	65-74	F	Homemaker	Low	Low	Fair	Small	Suburban	Fair	Passive	High
2006	75-84	M	Farmer	Low	Low	Fair	Large	Rural	Fair	Active	High
2007	85-94	F	Widow	Low	Low	Fair	Small	Suburban	Fair	Passive	High
2008	95-104	M	Disabled	Low	Low	Fair	Small	Urban	Fair	Passive	High

[illegible][illegible][illegible]

Figure 1. The effect of the concentration of the H_2O_2 solution on the amount of the H_2O_2 consumed in the reaction of the H_2O_2 solution with the Fe^{2+} solution. The concentration of the Fe^{2+} solution was 0.01 mol/L , and the concentration of the H_2O_2 solution was 0.01 mol/L . The reaction was carried out at 25°C for 10 min .

[illegible][illegible]

1. *Introduction*

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses (Y-axis) is plotted against the number of trials (X-axis). The data shows a positive correlation between the number of trials and the number of correct responses, with a linear regression line fitted to the data.

100

[illegible]

1000

